## 3.2.6 Lower Potomac Group Summary

## 3.2.6.1 Dogue Creek Watershed

**Description**. Dogue Creek Watershed is a medium-sized watershed, with approximately 17 miles of stream assessed. It is located along the middle of the southeastern boundary of the County. The watershed is entirely contained within the County Boundaries, and drains directly to the Potomac River.

Habitat. The habitat assessment results for Dogue Creek Watershed are summarized by stream in Table 3-29. Habitat scores for each reach are depicted in Figure 3-38. Based on a length weighted habitat score of 96 (Table 3-2), Dogue Creek Watershed is in the lower range of quality, compared to the rest of the County. Approximately 1 mile of stream was categorized as having "very poor" habitat conditions, 7 miles as "poor," and 8 miles as "fair."

**CEM**. Based on the CEM evaluations approximately 50 percent of the channels assessed in Dogue Creek Watershed are in Evolutionary Stage 3 (Table 3-3), with most of the remainder of the watershed in Stage 4. Figure 3-39 summarizes the CEM results for Dogue Creek Watershed.

Infrastructure. The infrastructure inventory resulted in 313 inventory points. The most significant problems were 10 inventory points, which was given impact scores of 10, including deficient buffers, head cuts, obstructions, and an erosional area. The infrastructure inventory results are summarized in Table 3-30. Figures 3-40, 3-41, 3-42, 3-43, and 3-44 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ditches; and dumps, obstructions, and utilities, respectively.

## 3.2.6.2 Little Hunting Creek Watershed

**Description**. Little Hunting Creek Watershed is a medium-sized watershed, with approximately 10 miles of stream assessed. It is located along the southeastern boundary of the County. The watershed is entirely contained within the County Boundaries, and drains directly to the Potomac River.

Habitat. The habitat assessment results for Little Hunting Creek Watershed are summarized by stream in Table 3-31. Habitat scores for each reach are depicted in Figure 3-38. Based on a length weighted habitat score of 82 (Table 3-2), Little Hunting Creek Watershed is one of the poorest quality watersheds in the County. Approximately 2 miles of stream were categorized as having "very poor" habitat conditions, 5.5 miles as "poor," 2 miles as "fair."

**CEM**. Based on the CEM evaluations approximately 40 percent of the channels assessed in Little Hunting Creek Watershed are in Evolutionary Stage 3 (Table 3-3), with most of the remainder of the watershed in Stage 4. Figure 3-39 summarizes the CEM results for Little Hunting Creek Watershed.

**Infrastructure**. The infrastructure inventory resulted in 207 inventory points. The most significant problems were related to a pipe and a deficient buffer, which was given impact scores of 9. The infrastructure inventory results are summarized in Table 3-32. Figures 3-40,

3-41, 3-42, 3-43, and 3-44 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ditches; and dumps, obstructions, and utilities, respectively.

## 3.2.6.3 Belle Haven Watershed

**Description**. Belle Haven Watershed is a small watershed, with approximately 2 miles of stream assessed. It is located on the eastern boundary of the County. The watershed is entirely contained within the County Boundaries, containing multiple tributaries that drain directly to Cameron Run and the Potomac River.

Habitat. The habitat assessment results for Belle Haven Watershed are summarized by stream in Table 3-33. Habitat scores for each reach are depicted in Figure 3-38. Based on a length weighted habitat score of 71 (Table 3-2), Belle Haven Watershed is the poorest quality watershed in the County. Approximately 1 mile of stream was categorized as having "very poor" habitat conditions, 0.2 miles as "poor," and 0.5 miles as "fair."

**CEM**. Based on the CEM evaluations all of the channels assessed in Belle Haven Watershed are in Evolutionary Stage 3 (Table 3-3). Figure 3-39 summarizes the CEM results for Belle Haven Watershed.

Infrastructure. The infrastructure inventory resulted in 35 inventory points. The most significant problem was related to an erosional area, which was given an impact score of 8. The infrastructure inventory results are summarized in Table 3-34. Figures 3-40, 3-41, 3-42, 3-43, and 3-44 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ditches; and dumps, obstructions, and utilities, respectively.

**TABLE 3-29**Habitat Assessment Summary for Little Dogue Creek Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream												
Stream	Very Poor	Poor	Fair	Good	Excellent	Total							
Barnyard Run	0 (0.00)	843 (27.07)	2,271 (72.93)	0 (0.00)	0 (0.00)	3,114							
Dogue Creek	700 (3.10)	5,415 (23.96)	16,185 (71.61)	303 (1.34)	0 (0.00)	22,603							
North Fork	0 (0.00)	3,320 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	3,320							
North Fork of Dogue Creek	4,271 (14.10)	26,025 (85.90)	0 (0.00)	0 (0.00)	0 (0.00)	30,295							
Piney Run	1,403 (5.44)	2,548 (9.87)	21,855 (84.69)	0 (0.00)	0 (0.00)	25,806							
Tributary to Douge Creek	0 (0.00)	0 (0.00)	2,355 (100.00	0 (0.00)	0 (0.00)	2,355							
Watershed Total	6,373 (7.28)	38,151 (43.60)	42,666 (48.77)	303 (0.35)	0 (0.00)	87,493							

TABLE 3-30 Infrastructure Assessment Summary for Dogue Creek Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	3	1	6	5	41	14	6	2	N/A	78
Crossings	32	20	30	13	12	3	0	1	0	0	0	N/A	111
Ditches and Pipes	43	21	5	5	3	1	0	0	0	0	0	N/A	78
Erosion	0	0	0	0	1	1	2	8	4	1	1	N/A	18
Head Cut	0	0	0	0	0	1	0	0	0	0	4	N/A	5
Obstruction	6	2	0	0	1	0	1	1	3	4	3	N/A	21
Utility	0	0	0	1	0	0	0	0	1	0	0	0	2
Total	81	43	35	22	18	12	8	51	22	11	10	0	313

**TABLE 3-31**Habitat Assessment Summary for Little Hunting Creek Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream											
Stream	Very Poor	Poor	Fair	Good	Excellent	Total						
Little Hunting Creek	6,610 (32.96)	11,293 (56.31)	2,154 (10.74)	0 (0.00)	0 (0.00)	20,057						
North Branch	3,648 (29.57)	8,689 (70.43)	0 (0.00)	0 (0.00)	0 (0.00)	12,337						
Paul Spring Branch	0 (0.00)	9,029 (47.20)	10,098 (52.80)	0 (0.00)	0 (0.00)	19,127						
Tributary to Potomac River	732 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	732						
Watershed Total	10,991 (21.03)	29,011 (55.52)	12,252 (23.45)	0 (0.00)	0 (0.00)	52,253						

**TABLE 3-32** Infrastructure Assessment Summary for Little Hunting Creek Watershed *Fairfax County Stream Physical Assessment* 

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	1	0	5	15	4	20	4	8	1	1	0	N/A	59
Crossings	26	11	5	2	1	2	2	1	0	0	0	N/A	50
Ditches and Pipes	38	8	5	5	3	0	1	1	0	1	0	N/A	62
Erosion	0	0	0	0	0	3	2	1	0	0	0	N/A	6
Head Cut	0	0	0	0	2	0	0	0	0	0	0	N/A	2
Obstruction	0	1	6	9	1	1	1	0	0	0	0	N/A	19
Utility	1	2	3	3	0	0	0	0	0	0	0	0	9
Total	66	22	24	34	11	26	10	11	1	2	0	0	207

**TABLE 3-33**Habitat Assessment Summary for Belle Haven Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream											
Stream	Very Poor	Poor	Fair	Good	Excellent	Total						
Hunting Creek	3,498 (79.73)	889 (20.27)	0 (0.00)	0 (0.00)	0 (0.00)	4,387						
Tributary to Hunting Creek	2,583 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	2,583						
Tributary to Potomac River	0 (0.00)	0 (0.00)	2,396 (100.00)	0 (0.00)	0 (0.00)	2,396						
Watershed Total	6,081 (64.93)	889 (9.50)	2,396 (25.58)	0 (0.00)	0 (0.00)	9,366						

TABLE 3-34 Infrastructure Assessment Summary for Belle Haven Watershed Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	3	2	3	0	3	0	0	0	N/A	11
Crossings	8	0	0	0	0	0	0	0	0	0	0	N/A	8
Ditches and Pipes	10	0	0	0	0	0	0	0	0	0	0	N/A	10
Erosion	0	0	0	0	0	2	0	0	1	0	0	N/A	3
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	0	0	0	1	0	1	0	0	0	N/A	2
Utility	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	18	0	0	4	2	6	0	4	1	0	0	0	35













